

Keyboard and display system for operating several accessories in a motor vehicle.

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Inventor(s): SACCO BRUNO (DE); MUTSCHLER JUERGEN (DE); JAMBOR ARNO (DE); SEEGER WILHELM (DE); SEIDENFADEN GERD (DE)
Applicant(s):: DAIMLER BENZ AG (DE)
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Abstract

The present invention relates to an assignment of an indication of a display to the keys of a keyboard, in which, with a view to a standard operating philosophy for all vehicle components, an actuation of the keys

leads to different settings of these vehicle components in a motor vehicle. 

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TITLE: Keyboard and display system for operating motor vehicle
components -
provides remote control with symbolic representation of key functions
displayed

INVENTOR: JAMBOR, A; MUTSCHLER, J ; SACCO, B ; SEEGER, W ; SEIDENFADE,
G

PATENT-ASSIGNEE: MERCEDES-BENZ AG[DAIM]

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MAIN-IPC			
DE 4010025 C	June 6, 1991	N/A	000
N/A			
EP 448984 A	October 2, 1991	N/A	000
N/A			
EP 448984 A3	August 5, 1992	N/A	000
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JP 04238759 A	August 26, 1992	N/A	005
B60R 016/02			

DESIGNATED-STATES: ES FR GB IT NL SE

CITED-DOCUMENTS: DE 3346370; DE 3514438 ; DE 3628333 ; EP 279233 ; EP
333330
; EP 57892 ; GB 2116800

APPLICATION-DATA:

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DE 4010025C	N/A	1990DE-4010025	March
29, 1990			
EP 448984A	N/A	1991EP-0103139	March
2, 1991			
EP 448984A3	N/A	1991EP-0103139	March
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H02B015/00 ; H04M001/02 ; H04M001/21 ; H04M001/27

ABSTRACTED-PUB-NO: DE 4010025C

BASIC-ABSTRACT: The keyboard and display system is used for servicing
several
vehicle components in a vehicle. One of the vehicle components is

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ES 2064418T3	N/A	1989EP-0119881	
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US 5270689A	N/A	1989US-0426186	
October 25, 1989			

INT-CL (IPC): B60K035/00; B60R016/02 ; G05G001/10 ; G09G003/02 ;
H01H009/16 ; H01H025/06

ABSTRACTED-PUB-NO: EP 366132A

BASIC-ABSTRACT: The operating control uses rotary switches for selection of a menu corresponding to a given function group and for selection of the individual function from this menu. The same bidirectional rotary switch is used for menu selection and the individual function selection, with a series of successive switch positions defining the different menus or functions , with an enter function activated by axial movement of the rotary switch in the selected switch position.

Pref. the selected menu and/or function is visually represented on a display screen, together with the corresponding switch position.

ADVANTAGE - Simplified selection of complex functions. @(8pp)

ABSTRACTED-PUB-NO: EP 366132B

EQUIVALENT-ABSTRACTS: A multi-function operating device for motor vehicles, wherein groups of functions (menus) and individual functions are selectable by means of rotary switches and an enter-function is triggerable, characterised in that a single bidirectional rotary switch (1) is used for selection of menus and selection of individual functions; that the rotary switch (1) has stop positions, that the menus or individual functions are associated with stop positions; and that the enter-function can be triggered by axial motion of the rotary switch (1).

US 5270689A

The multi-function operator control includes a single bidirectional rotary switch with stop positions and axial movability, used to designate function groups and to select groups by an enter function arrangement and subsequently, within the respective function group, select an individual function in



US005270689A

United States Patent [19]
Hermann[11] **Patent Number:** **5,270,689**
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- [54] **MULTI-FUNCTION OPERATING DEVICE**
- [75] **Inventor:** **Künzner Hermann, Munich, Fed. Rep. of Germany**
- [73] **Assignee:** **Bayerische Motoren Werke AG, Fed. Rep. of Germany**
- [21] **Appl. No.:** **426,186**
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- [30] **Foreign Application Priority Data**

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- [51] **Int. Cl.⁵** **G09G 3/02**
- [52] **U.S. Cl.** **345/145; 345/157**
- [58] **Field of Search** **340/709, 706, 711, 712, 340/602, 710, 723; 400/63; 364/431.03, 551.01, 552, 426.02; 219/494; 84/615; 379/63; 360/137; 200/552**

[56] **References Cited****U.S. PATENT DOCUMENTS**

- 4,131,033 12/1978 Wright et al. 200/316
- 4,218,775 8/1980 Cox et al. 360/137
- 4,324,966 4/1982 Tanabe 340/602
- 4,390,861 6/1983 Cohen et al. 340/706
- 4,419,654 12/1983 Funk 364/426.02

- 4,561,049 12/1985 Deiganes et al. 340/723
- 4,685,064 8/1987 Kinoshita et al. 340/709
- 4,712,101 12/1987 Culver 340/710
- 4,763,117 8/1988 Blattner et al. 340/712
- 4,818,131 4/1989 Sakai 400/63
- 4,836,699 6/1989 Babsch et al. 340/711

Primary Examiner—Alvin E. Oberley**Assistant Examiner**—Steve Saras**Attorney, Agent, or Firm**—Evenson, McKeown, Edwards & Lenahan[57] **ABSTRACT**

In the case of a multi-function operating device for motor vehicles, a single bidirectional rotary switch having stop positions and axial movability is used to designating function groups and to select them by means of an enter function arrangement and subsequently, within the respective function group, select the pertaining function in the same manner. The sole operating element in the form of the rotary switch can be operated without any problems and permits the desired selection or operating function at any time and without drawing attention away from the traffic situation.

8 Claims, 3 Drawing Sheets